T. ssee Department of Environment and Conse. .tion,
Division of Water Pollution Control
401 Church Street, 6th Floor L & C Annex, Nashville, TN 37243
(615) 532-0625

CONCENTRATED ANIMAL FEEDING OPERATION (CAFO)
STATE OPERATING PERMIT (SOP)
NOTICE OF INTENT (NOI)

Type of permit you are requesting: ☐ SOPCD0000 (designed to discharge) ☑ SOPC00000 (no discharge) ☐ Unknown, please advise

Application type: ☐ New Permit ☐ Permit Reissuance ☐ Permit Modification

If this NOI is submitted for Permit Modification or Reissuance provide the existing permit tracking number: ____

OPERATION IDENTIFICATION

Operation Name: D+J Farms	County: Macon
Operation Location/ Physical Address: 2440 Coleytown Road Lafayette TN 37083	Latitude: N 36.50727936 Longitude: W 85.96885185
Name and distance to nearest receiving water(s): 500' White Oak Creek	
If any other State or Federal Water/Wastewater Permits have been obtained for this site, list those permit numbers:	
Animal Type: ☒ Poultry ☐ Swine ☐ Dairy ☐ Beef ☐ Other ____	
Number of Animals: 95,000 Number of Barns: 4	Name of Integrator: Marling (Keystone)
Type of Animal Waste Management: (check all that apply) ☒ Dry ☐ Liquid ☐ Liquid, Closed System (i.e. covered tank, under barn pit, etc.)	
Attach the NMP ☒ NMP Attached | Attach the closure plan ☐ Closure Plan Attached	Attach a topographic map ☐ Map Attached

PERMITTEE IDENTIFICATION

Official Contact (applicant): Dewey A. Swindle	Title or Position: Owner			
Mailing Address: 587 Coleytown Rd.	City: Lafayette	State: TN	Zip: 37083	☐ Correspondence ☐ Invoice
Phone number(s): 615-666-8004	E-mail: tswindle@pilgrimspride.com			
Optional Contact:	Title or Position:			
Address:	City:	State:	Zip:	☐ Correspondence ☐ Invoice
Phone number(s):	E-mail:			

APPLICATION CERTIFICATION AND SIGNATURE (must be signed in accordance with the requirements of Rule 1200-4-5-.05)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and title; print or type	Signature	Date
Dewey A. Swindle	Dewey A. Swindle	8-11-10

STATE USE ONLY

Received Date: RECEIVED	Reviewer: EEO	EFO: Cookeville	T & E Aquatic Fauna	Tracking No: SOPC000046
	Impaired Receiving Stream: ____	High Quality Water		NOC Date: 11-23-10

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SOPC 92046

TENNESSEE DEPARTMENT OF AGRICULTURE

Water Resources Program

TNA000011

The following individual has submitted all required elements of an NMP/CNMP as required to obtain a CAFO permit. Their Nutrient Management Plan (or CNMP) has been reviewed and approved by this office.

Name of Owner/Operator: Dewey Swindle

Operation Name: D & J Farms

Address of Operation: 2440 Coleytown Road Lafayette, TN 37083

Phone Number: (615) 666-8004 County: Macon

Date application was initiated:

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Date approval forwarded to TDEC:

AUG 31 2010

NMP/CNMP Approval Date:

THE APPROVAL SHALL NOT BE CONSTRUED AS CREATING APRESUMPTION OF CORRECT
AUG 31 2010
OPERATION OR AS WARRANTING THAT THE APPROVED FACILITIES WILL REACH THE DESIGNED GOALS

Date approval received by TDEC

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TDA Reviewer's Name: Sam Marshall

TDA Reviewer's Signature: Sam Marshall August 31, 2010
Date

02/15/10 DTJ Farms 9

Nutrient Management Plan Requirements

The following 9 items need to be submitted at the time the permit is applied for. Additional record-keeping items as outlined in the CAFO rules are also considered part of the nutrient management plan and must be kept on-site. More information on each item can be found in the CAFO rule (1200-4-5-.14).

☒ 1. **Two maps: (1.)** A map of your farm showing location of any animal barns/houses, compost bins, litter storage bins, manure lagoons/holding ponds, nearby roads, fields to which litter/manure will be applied, and non-application buffer areas around any bodies of water (streams, creeks, rivers, ponds, wells, sinkholes, springs, wetlands, etc.). A hand-drawn map is acceptable and even preferred. **(2.)** A topographic map of the farm (1:24000 scale, showing 1-mile radius from farm) showing property lines.

☒ 2. **Nutrient budget** – this is basically a balance sheet of all manure produced on the farm and all manure spread on the farm or removed from the farm. Application rates for all fields should be based on crop needs, realistic crop yield expectations, and actual manure analyses of nutrient content.

☒ 3. **Soil test results** for phosphorus and potassium for each application field. These must be taken at a minimum of every five years.

☒ 4. Results of **manure analysis** from within the past year. Annual manure testing is a requirement for all CAFOs. These results must be included with initial permit application if the farm is in operation. If the farm that is applying for the permit is new and not yet operating, then manure testing results need to be obtained once operation begins. At that point, the manure test results and revised application rates need to be submitted to TDA. Manure test results in subsequent years need to be kept as part of your record-keeping activities.

N/A 5. Results of the **Phosphorus Index** applied to each field that has a soil test P value of "High" or "Very High". In those situations, this tool will determine whether your application rates will be based on nitrogen or phosphorus.

☒ 6. Statement regarding method of **dead animal disposal**.

☒ 7. **Closure Plan** to be implemented in the event animal production ceases on the site.

These last two items are only required for medium-size CAFOs that manage **liquid manure**.

N/A ☐ 8. Documentation of **design of liquid waste handling system**. This should include, but is not limited to: volume for solids accumulation, design treatment volume, total design volume, the approximate number of days of storage capacity, pumping and routing of wastes, and any solid separation process. Ideally, this documentation would consist of the pertinent engineering drawings with accompanying descriptive narrative.

N/A ☐ 9. The construction, modification, repair, or installation of any portion of a CAFO liquid waste handling system (such as earthen holding pond, treatment lagoon, pit, sump or other earthen storage/containment structure) after April 13, 2006 must be preceded by a thorough **subsurface investigation**. This investigation will include a detailed soils investigation with special attention to the water table depth and seepage potential.

In addition to the items above, the following form(s) must accompany your application:

☒ ***Notice of Intent* form** must be submitted with all applications from Class II (Medium) CAFOs

OR

N/A ☐ **EPA Forms 1 and 2B** must be submitted with all applications from Class I (Large) CAFOs.

☒ **Addendum to Nutrient Management Plan**.

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Closure Plan

In the event that broiler production at this location ceases, the following will be done within 360 days:

- Any litter/compost currently in storage at the time of closure will be removed and spread on the farm or spread elsewhere according to my Nutrient Management Plan.
- All litter in houses will be removed and spread on the farm or spread elsewhere according to my Nutrient Management Plan.
- All land application of litter will be done at application rates calculated in the Nutrient Management Plan.
- The most current litter analysis will be provided to anyone removing litter from the farm.
- Any dead birds in the houses at the time of closure will be composted.

Dewey A. Snowdle

Date: 8-23-10

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Addendum to Nutrient Management Plan:

By my signature below, I affirm that I have read, understand, and will comply with the following stipulations from Tennessee's CAFO rule (1200-4-5-.14) that apply to my CAFO operation.

1) All clean water (including rainfall) is diverted, as appropriate, from the production area.
2) All animals in confinement are prevented from coming in direct contact with waters of the state.
3) All chemicals and other contaminants handled on-site are not disposed of in any manure, litter, process wastewater, or storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants.
4) All sampling of soil and manure/litter is conducted according to protocols developed by UT Extension.
5) All records outlined in 1200-4-5-.14(16)d-f will be maintained and available on-site.
6) Any confinement buildings, waste/wastewater handling or treatment systems, lagoons, holding ponds, and any other agricultural waste containment/treatment structures constructed after April 13, 2006 are or will be located in accordance with NRCS Conservation Practice Standard 313.
7) Drystacks of manure or stockpiles of litter are always kept covered under roof or tarps.
8) An *Annual Report* will be written for my operation and submitted between January 1 and February 15 of each year. It will include all information required by rule [1200-4-5-.14(16)g].

Dewey A. Swindle
Signature of CAFO Operator:

8-4-09
Date:

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T Swindle

D & J Farms Nutrient Management Plan

Operation:

A four house broiler farm that produces birds presently for Keystone Foods. Capacity is 92,000 birds per house with six flocks per year maximum cycles. Litter production is based on 2.1 lbs per bird with annual production of 662 tons (assuming 6 cycles per year).

Litter Management:

Litter is de-caked between each flock and is stored in a litter storage shed awaiting land application or sales to third parties. Total clean out is performed no more than once a year and can stretch to every third year depending on conditions inside the house. Annual litter analysis is performed to monitor the N-P-K content of the natural resource.

Fertilizer Application:

Fertilizer is applied on the basis of annual soil sample for individual fields on four different farms that are tributary to this broiler operation. Phosphorous levels are monitored closely and if no "P" is called for none is applied to the fields. Commercial fertilizer will be purchased and applied on Nitrogen needs as well as Potassium. This is the simplest and cheapest way we have found to manage the P in the soils. If litter is spread on the farm it will be applied on the rate of 1.5 tons per acre and using the most recent P205 level on our litter that would be equivalent to 70lbs of phosphorous. We will not spread litter until the test calls for at least 60/lbs per acre of P as time and economics don't work for our operation to spread at the lower rate, thus we revert to the commercial application.

Table of Soil samples for the 4 tributary farms:

Sample	Mar-10 Field	Acres	Crop	Soil PH	N Rate	Soil Test P	P205 Rate	Soil Test K	K20 Rate
jb1	J1-B	7	Fescue	6.7	60/120	M	30	L	60
j2	J2	3	Fescue	6.3	60/120	H	0	M	30
jf2	J1-2A	6	Fescue	6.9	60/165	M	30	L	60
jf3	J1-3A	5	Fescue	7	60/165	H	30	L	60
J5	J5 A	4	Fescue	6.4	60-120	M	30	V	0
j4	J5B-C	6	Fescue	6.4	60/120	H	0	M	30
j3	J3 A-B	7	Fescue	6.3	0/90	M	30	L	60
	J9	7	Fescue	6.5	0/90	H	0	L	60
	J10	9	Fescue	6.5	0/90	H	0	L	60
	B4	5	Fescue	6.4	0/90	M	30	M	30
	B5	4	Fescue	6.3	60/120	M	30	M	30
	B3	10	Fescue	6.3	60/120	L	60	H	0
B6	B6-7-8	9	Fescue	6.3	60/120	V	0	M	30
S1	S1-S1 A	22	Fescue	6.3	30/120	H	0	L	60
	S2	9	Fescue	6.4	0/90	L	60	H	0
T1 A	TA-1	16	Fescue	6.6	30/120	H	0	L	60
T1 B	TB-1	4	Fescue	6.4	30/120	H	0	H	0
	T2	10	Fescue	6.7	30/120	H	0	L	60

On a regular basis litter is sold off the farm to local tobacco producers. A nutrient profile is available upon request and records are keep as to whom the sales occur.

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Tom Swindle

Results of Litte Analysis on a as is basis (lbs/ton) using average of two samples

Nutrient	Analysis	All 4 Houses
Nitrogen	30.6	20269
Phosphorus (as P2 05)	46.75	30948
Potassium (as K 2 0)	40.6	26877

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Form 1

NUTRIENT MANAGEMENT PLAN FOR THE POULTRY INDUSTRY

GENERAL INFORMATION

Name of farm D+J Farms

Farm owner's name Dewey A. Swindle

Mailing address 3440 Coleytown Rd
Lafayette, TN 37083
Zip

County
Macon

Telephone no.
615-666-2277

TYPE OF POULTRY FARM OPERATION (check all that apply)

Farm situation	Type of poultry
☒ Existing	☒ Broilers
☐ New	☐ Broiler breeder replacements
☐ Expanding	☐ Broiler breeders
	☐ Table egg type hens
	☐ Table egg type replacements

Farm owner signature Dewey Swindle Date: 8-4-09

Name of the person if the farm is leased and/or operated by someone other than the farm owner:
Dewey A. Swindle

Signature Dewey A. Swindle Date 8-4-09

Assistance in completing this nutrient management plan was provided by: (check all that apply)

☒ University of Tennessee Agricultural Extension Service

☒ Natural Resources Conservation Service

☐ Private consultant

☐ Other _____
(name)

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Form 2

CALCULATING POULTRY LITTER PRODUCTION

The total tons of poultry litter produced on your farm can be estimated by using one or more of the following methods:

Broilers		**Example**		**Your farm**
a.	Total number of birds on farm per flock	50,000	birds	92,000
b.	Number of flocks per year	6	flocks	6
c.	Total farm bird capacity (a x b)	300,000	birds	552,000
d.	Pounds of litter produced per bird (see Table 5)	2.1	pounds	2.4
e.	Pounds of litter produced per year (c x d)	630,000	pounds	1,324,800
f.	Tons of litter per year (e ÷ 2000)	315	tons	662.4

Pullets (Broiler Breeder or Table -egg -type)		**Example**		**Your farm**
a.	Total number of birds on farm per flock	22,000	birds	
b.	Number of flocks per year	2	flocks	
c.	Total farm bird capacity (a x b)	44,000	birds	
d.	Pounds of litter produced per bird (see Table 5)	5	pounds	
e.	Pounds of litter produced per year (c x d)	220,000	pounds	
f.	Tons of litter per year (e ÷ 2000)	110	tons	

Hens (Broiler Breeder or Table-egg-type)		**Example**		**Your farm**
a.	Total number of birds on farm per flock	20,000	birds	
b.	Number of flocks per year	1	flocks	
c.	Total farm bird capacity (a x b)	20,000	birds	
d.	Pounds of litter produced per bird (see Table 5)	35	pounds	
e.	Pounds of litter produced per year (c x d)	700,000	pounds	
f.	Tons of litter per year (e ÷ 2000)	350	tons	

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Crop*	Acres	(tons/acre)	(tons)
Fescue Pasture	100 acres	1.5	150
Fescue Hay	80 acres	1.5	120

**Information for this chart will come from the worksheet for each crop.*

Total tons needed to meet crop nitrogen requirements: 270

Total tons produced on your farm: 662

Poultry Litter Use

Tons of litter used in owners farming operation
- -Fertilizer: 270
- -Feed: _____
- -Other: _____

Tons of litter removed from poultry farm by owner: 270

Tons of litter removed from poultry farm by others: 392

Total tons of litter used in farming operation and removed from farm: 662

Manure Handling Methods
(check all that apply or will apply)

- ☒ Litter taken directly to fields on the farm
- ☐ Litter stockpiled and covered with plastic
- ☒ Litter stockpiled in a building
- ☒ Litter used in a composter
- ☒ Litter sold or given away
- ☐ Litter used as cattle feed
- ☐ Litter removed from the farm by the poultry farmer
- ☒ Litter removed from the farm by a third party
- ☐ Litter used as a fuel in a heating system
- ☐ Other _____ (specify)

Dead Bird Disposal Method

- ☒ Composting
- ☐ Incineration
- ☐ Covered in ground pit burial
- ☐ Permitted landfill
- ☐ Rendering
- ☐ Other _____ (specify)

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Note: If soil samples don't call for "P" no litter is used on the farm. More will be sold or either stored in litter sheds.

Dewey A Sewell 8-11-10

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AGRICULTURAL DIAGNOSTIC LABORATORY

UNIVERSITY OF ARKANSAS - FAYETTEVILLE

***MANURE FOR FERTILIZER ANALYSIS (report for AGRI-429)

Name:	DEWEY SWINDLE	Received in lab:	3/29/2010
Address:	2440 COLEYTOWN RD.	Mailed:	4/02/2010
City:	LAFAYETTE	State,Zip:	TN 37083
County:	MACON (TN)	CK#:	2022

Lab. No.	M100445	M100446
Sample No.	1	2
Animal type	broilers	broilers
-age/lbs	7 wk/6.75 lbs	7 wk/6.75 lbs
Bedding type	shavings/sawdust	none given
Manure type	cake	dead bird composter
Sample date	3/22/2010	3/22/2010
Age of manure	1 yr	none given
pH	8.7	8.7
EC(umhos/cm)	13600	14100
% H20	29.89	63.68
on dry basis		
Total %N	4.11	4.21
Total %P	1.63	2.49
Total %K	3.91	4.61
Total %Ca	3.44	5.04
Total %Carbon	36.47	34.94
NO3-N, mg/kg		
NH4-N, mg/kg		
on "as-is" basis		
Total %N	2.88	1.53
Total %P	1.14	0.90
Total %K	2.74	1.68
Total %Ca	2.41	1.83
Total %Carbon	25.57	12.69
NO3-N, mg/kg		
NH4-N, mg/kg		
lbs/ton on "as-is" basis		
N	57.6	30.6
P2O5	52.2	41.3
K2O	66.3	40.6
Ca	48.2	36.6
Total Carbon	511.4	253.8
NO3-N		
NH4-N		

***all analyses performed on "as-is" basis/ "dry" basis is calculated from moisture content

*lbs/ton P2O5 = %Total P on "as-is" basis multiplied by 20*2.29

*lbs/ton K2O = %Total K on "as-is" basis multiplied by 20*1.2

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THE UNIVERSITY of TENNESSEE | UT Extension

SOIL TEST REPORT

DEWEY SWINDLE
2440 COLEYTOWN ROAD

LAFAYETTE, TN 37083

Deborah K. Joines
Manager
Soil, Plant and Pest Center
5201 Marchant Drive
Nashville, TN 37211-5112
(615) 832-5850
soilplantpestcenter@utk.edu

Date Tested: 3/25/2010

County: Macon **Lab Number:** 383761

Mehlich 1 SOIL TEST RESULTS and RATINGS* (Pounds Per Acre)

Sample ID B4

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Sulfur	Nitrates (ppm)
6.4		24	*M*	101	*M*	1479	*S*	361	*S*								

Organic Matter %

Soluble Salts PPM**

RECOMMENDATIONS

Fertilizer/Lime Application Rate and Timing

B4

Grass-Clover Pasture b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 0-90 / 30 / 30 pounds per acre

Limestone: Lime is not recommended at this time

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

County: Macon **Lab Number:** 383762

Mehlich 1 SOIL TEST RESULTS and RATINGS* (Pounds Per Acre)

Sample ID B5

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Sulfur	Nitrates (ppm)
6.3		64	*H*	144	*M*	1626	*S*	354	*S*								

Organic Matter %

Soluble Salts PPM**

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*Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.)

**PPM = Parts per Million

If you have questions about these recommendations, contact your County Extension office.

Visit our web site at http://soilplantandpest.utk.edu for additional information.

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RECOMMENDATIONS

B5

Fertilizer/Lime Application Rate and Timing

Cool Season Grass Pasture b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 60-120 / 0 / 30 pounds per acre

Limestone: Lime is not recommended at this time

Apply recommended amounts of phosphate and potash in one application anytime during the year. Apply 60 pounds of nitrogen per acre August 15 to September 15 and from March 1 to March 30. If additional growth is only needed during one season, apply nitrogen for that season only. If fescue is stockpiled in the fall, apply 60 pounds of N per acre August 15 to September 15.

County: Macon **Lab Number:** 383763

Mehlich 1 SOIL TEST RESULTS and RATINGS*

Sample ID B3

(Pounds Per Acre)

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Sulfur	Nitrates (ppm)
6.3		9	*L*	168	*H*	1339	*S*	294	*S*								

Organic Matter %

Soluble Salts PPM**

RECOMMENDATIONS

B3

Fertilizer/Lime Application Rate and Timing

Cool Season Grass Pasture b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 60-120 / 60 / 0 pounds per acre

Limestone: Lime is not recommended at this time

Apply recommended amounts of phosphate and potash in one application anytime during the year. Apply 60 pounds of nitrogen per acre August 15 to September 15 and from March 1 to March 30. If additional growth is only needed during one season, apply nitrogen for that season only. If fescue is stockpiled in the fall, apply 60 pounds of N per acre August 15 to September 15.

County: Macon **Lab Number:** 383764

Mehlich 1 SOIL TEST RESULTS and RATINGS*

Sample ID S1

(Pounds Per Acre)

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Sulfur	Nitrates (ppm)
6.3		31	*H*	89	*L*	1358	*S*	250	*S*								

Organic Matter %

Soluble Salts PPM**

RECOMMENDATIONS

S1

Fertilizer/Lime Application Rate and Timing

Grass/Legume Hay b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 30-120 / 0 / 60 pounds per acre

Limestone: Lime is not recommended at this time

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*Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.)

**PPM = Parts per Million

If you have questions about these recommendations, contact your County Extension office.

Visit our web site at http://soilplantandpest.utk.edu for additional information.

Apply 30 pounds of N per acre March 1-30 and again after first cutting if an additional cutting is expected. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

County: Macon **Lab Number:** 383765

Mehlich 1 SOIL TEST RESULTS and RATINGS*

(Pounds Per Acre)

Sample ID S2

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Sulfur	Nitrates (ppm)
6.4		44	H	289	H	1450	S	348	S								

Organic Matter %

Soluble Salts PPM**

RECOMMENDATIONS

Fertilizer/Lime Application Rate and Timing

S2

Grass-Clover Pasture b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 0-90 / 0 / 0 pounds per acre

Limestone: Lime is not recommended at this time

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

County: Macon **Lab Number:** 383766

Mehlich 1 SOIL TEST RESULTS and RATINGS*

(Pounds Per Acre)

Sample ID D4

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Sulfur	Nitrates (ppm)
6.1		10	L	241	H	1316	S	237	S								

Organic Matter %

Soluble Salts PPM**

RECOMMENDATIONS

Fertilizer/Lime Application Rate and Timing

D4

Cool Season Grass Pasture b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 60-120 / 60 / 0 pounds per acre

Limestone: Lime is not recommended at this time

Apply recommended amounts of phosphate and potash in one application anytime during the year. Apply 60 pounds of nitrogen per acre August 15 to September 15 and from March 1 to March 30. If additional growth is only needed during one season, apply nitrogen for that season only. If fescue is stockpiled in the fall, apply 60 pounds of N per acre August 15 to September 15.

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County: Macon **Lab Number:** 383767

*Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.)

**PPM = Parts per Million

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Mehlich 1 SOIL TEST RESULTS and RATINGS*
(Pounds Per Acre)

Sample ID D6

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Sulfur	Nitrates (ppm)
6.3		37	H	104	M	1224	S	319	S								

Organic Matter %

Soluble Salts PPM**

RECOMMENDATIONS
Fertilizer/Lime Application Rate and Timing

D6

Grass-Clover Pasture b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 0-90 / 0 / 30 pounds per acre

Limestone: Lime is not recommended at this time

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

Lab Number: 383768

County: Macon

Mehlich 1 SOIL TEST RESULTS and RATINGS*
(Pounds Per Acre)

Sample ID TA1

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Sulfur	Nitrates (ppm)
6.6		31	H	71	L	1596	S	378	S								

Organic Matter %

Soluble Salts PPM**

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RECOMMENDATIONS
Fertilizer/Lime Application Rate and Timing

TA1

Grass/Legume Hay b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 30-120 / 0 / 60 pounds per acre

Limestone: Lime is not recommended at this time

Apply 30 pounds of N per acre March 1-30 and again after first cutting if an additional cutting is expected. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

Lab Number: 383769

County: Macon

Mehlich 1 SOIL TEST RESULTS and RATINGS*
(Pounds Per Acre)

Sample ID T1B

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Sulfur	Nitrates (ppm)
6.4		36	H	171	H	1265	S	344	S								

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Organic Matter %	Soluble Salts PPM**

RECOMMENDATIONS

T1B — **Fertilizer/Lime Application Rate and Timing**

Grass/Legume Hay b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 30-120 / 0 / 0 pounds per acre

Limestone: Lime is not recommended at this time

Apply 30 pounds of N per acre March 1-30 and again after first cutting if an additional cutting is expected. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

County: Macon **Lab Number:** 383770

Mehlich 1 SOIL TEST RESULTS and RATINGS*

Sample ID T2 — **(Pounds Per Acre)**

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Sulfur	Nitrates (ppm)
6.6		46	*H*	72	*L*	1973	*S*	369	*S*								

Organic Matter %	Soluble Salts PPM**

RECOMMENDATIONS

T2 — **Fertilizer/Lime Application Rate and Timing**

Grass/Legume Hay b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 30-120 / 0 / 60 pounds per acre

Limestone: Lime is not recommended at this time

Apply 30 pounds of N per acre March 1-30 and again after first cutting if an additional cutting is expected. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

County: Macon **Lab Number:** 383771

Mehlich 1 SOIL TEST RESULTS and RATINGS*

Sample ID JB1 — **(Pounds Per Acre)**

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Sulfur	Nitrates (ppm)
6.7		21	*M*	73	*L*	1825	*S*	310	*S*								

Organic Matter %	Soluble Salts PPM**

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RECOMMENDATIONS

Fertilizer/Lime Application Rate and Timing

JB1

Cool Season Grass Pasture b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 60-120 / 30 / 60 pounds per acre

Limestone: Lime is not recommended at this time

Apply recommended amounts of phosphate and potash in one application anytime during the year. Apply 60 pounds of nitrogen per acre August 15 to September 15 and from March 1 to March 30. If additional growth is only needed during one season, apply nitrogen for that season only. If fescue is stockpiled in the fall, apply 60 pounds of N per acre August 15 to September 15.

Lab Number: 383772

County: Macon

Mehlich 1 SOIL TEST RESULTS and RATINGS*

(Pounds Per Acre)

Sample ID JF2

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Sulfur	Nitrates (ppm)
6.9		26	M	42	L	2364	S	307	S								

Organic Matter %

Soluble Salts PPM**

RECOMMENDATIONS

Fertilizer/Lime Application Rate and Timing

JF2

Grass Hay b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 60-165 / 30 / 60 pounds per acre

Limestone: Lime is not recommended at this time

Apply recommended amounts of phosphate and potash in one application anytime during the year. Apply 60 pounds of nitrogen per acre March 1-30. Where a second cutting is expected, apply an additional 45 pounds 0f N per acre immediately after the first cutting. If fescue is stockpiled in the fall, apply 60 pounds of N per acre August 15 to September 15.

If urea is the nitrogen source, especially for fall topdressings, some loss of nitrogen may occur if applied to moist soils followed by three or more days of rapidly drying conditions without rainfall. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

Lab Number: 383773

County: Macon

Mehlich 1 SOIL TEST RESULTS and RATINGS*

(Pounds Per Acre)

Sample ID JF3

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Sulfur	Nitrates (ppm)
7.0		37	H	39	L	1882	S	300	S								

Organic Matter %

Soluble Salts PPM**

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RECOMMENDATIONS

Fertilizer/Lime Application Rate and Timing

JF3

Grass Hay b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 60-165 / 0 / 60 pounds per acre

Limestone: Lime is not recommended at this time

Apply recommended amounts of phosphate and potash in one application anytime during the year. Apply 60 pounds of nitrogen per acre March 1-30. Where a second cutting is expected, apply an additional 45 pounds 0f N per acre immediately after the first cutting. If fescue is stockpiled in the fall, apply 60 pounds of N per acre August 15 to September 15.

If urea is the nitrogen source, especially for fall topdressings, some loss of nitrogen may occur if applied to moist soils followed by three or more days of rapidly drying conditions without rainfall. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

Lab Number: 383774

County: Macon

Mehlich 1 SOIL TEST RESULTS and RATINGS*

(Pounds Per Acre)

Sample ID J10

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Sulfur	Nitrates (ppm)
6.5		47	H	47	L	1596	S	266	S								

Organic Matter %	Soluble Salts PPM**

RECOMMENDATIONS

Fertilizer/Lime Application Rate and Timing

J10

Grass-Clover Pasture b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 0-90 / 0 / 60 pounds per acre

Limestone: Lime is not recommended at this time

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

Lab Number: 383775

County: Macon

Mehlich 1 SOIL TEST RESULTS and RATINGS*

(Pounds Per Acre)

Sample ID J9

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Sulfur	Nitrates (ppm)
6.5		15	L	88	L	1622	S	237	S								

Organic Matter %	Soluble Salts PPM**

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RECOMMENDATIONS

Fertilizer/Lime Application Rate and Timing

J9

Grass-Clover Pasture b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 0-90 / 60 / 60 pounds per acre

Limestone: Lime is not recommended at this time

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

Lab Number: 383776

County: Macon

Mehlich 1 SOIL TEST RESULTS and RATINGS*

(Pounds Per Acre)

Sample ID J2

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Sulfur	Nitrates (ppm)
6.3		33	*H*	136	*M*	1569	*S*	312	*S*								

Organic Matter %

Soluble Salts PPM**

RECOMMENDATIONS

Fertilizer/Lime Application Rate and Timing

J2

Cool Season Grass Pasture b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 60-120 / 0 / 30 pounds per acre

Limestone: Lime is not recommended at this time

Apply recommended amounts of phosphate and potash in one application anytime during the year. Apply 60 pounds of nitrogen per acre August 15 to September 15 and from March 1 to March 30. If additional growth is only needed during one season, apply nitrogen for that season only. If fescue is stockpiled in the fall, apply 60 pounds of N per acre August 15 to September 15.

Lab Number: 383777

County: Macon

Mehlich 1 SOIL TEST RESULTS and RATINGS*

(Pounds Per Acre)

Sample ID J5

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Sulfur	Nitrates (ppm)
6.4		23	*M*	321	*V*	1660	*S*	301	*S*								

Organic Matter %

Soluble Salts PPM**

RECOMMENDATIONS

Fertilizer/Lime Application Rate and Timing

J5

Cool Season Grass Pasture b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 60-120 / 30 / 0 pounds per acre

Limestone: Lime is not recommended at this time

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Apply recommended amounts of phosphate and potash in one application anytime during the year. Apply 60 pounds of nitrogen per acre August 15 to September 15 and from March 1 to March 30. If additional growth is only needed during one season, apply nitrogen for that season only. If fescue is stockpiled in the fall, apply 60 pounds of N per acre August 15 to September 15.

County: Macon **Lab Number:** 383778

Mehlich 1 SOIL TEST RESULTS and RATINGS*

Sample ID J4 **(Pounds Per Acre)**

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Sulfur	Nitrates (ppm)
6.4		33	*H*	156	*M*	1848	*S*	330	*S*								
	Organic Matter %	Soluble Salts PPM**															

RECOMMENDATIONS

J4 **Fertilizer/Lime Application Rate and Timing**

Cool Season Grass Pasture b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 60-120 / 0 / 30 pounds per acre

Limestone: Lime is not recommended at this time

Apply recommended amounts of phosphate and potash in one application anytime during the year. Apply 60 pounds of nitrogen per acre August 15 to September 15 and from March 1 to March 30. If additional growth is only needed during one season, apply nitrogen for that season only. If fescue is stockpiled in the fall, apply 60 pounds of N per acre August 15 to September 15.

County: Macon **Lab Number:** 383779

Mehlich 1 SOIL TEST RESULTS and RATINGS*

Sample ID J3 **(Pounds Per Acre)**

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Sulfur	Nitrates (ppm)
6.3		22	*M*	56	*L*	1382	*S*	208	*S*								
	Organic Matter %	Soluble Salts PPM**															

RECOMMENDATIONS

J3 **Fertilizer/Lime Application Rate and Timing**

Grass-Clover Pasture b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 0-90 / 30 / 60 pounds per acre

Limestone: Lime is not recommended at this time

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

County: Macon **Lab Number:** 383780

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**PPM = Parts per Million

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Me...ch 1 SOIL TEST RESULTS and RAT... S*

(Pounds Per Acre)

Sample ID B7

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Sulfur	Nitrates (ppm)
6.3		132	V	145	M	1747	S	340	S								

Organic Matter %

Soluble Salts PPM**

RECOMMENDATIONS

Fertilizer/Lime Application Rate and Timing

B7

Cool Season Grass Pasture b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 60-120 / 0 / 30 pounds per acre

Limestone: Lime is not recommended at this time

Apply recommended amounts of phosphate and potash in one application anytime during the year. Apply 60 pounds of nitrogen per acre August 15 to September 15 and from March 1 to March 30. If additional growth is only needed during one season, apply nitrogen for that season only. If fescue is stockpiled in the fall, apply 60 pounds of N per acre August 15 to September 15.

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THE UNIVERSITY of TENNESSEE | UT Extension

SOIL TEST REPORT

DEWEY SWINDLE
2440 COLEYTOWN ROAD

LAFAYETTE, TN 37083

Deborah K. Joines
Manager
Soil, Plant and Pest Center
5201 Marchant Drive
Nashville, TN 37211-5112
(615) 832-5850
soilplantpestcenter@utk.edu

Date Tested: 3/18/2009

County: Macon **Lab Number:** 361085

Mehlich 1 SOIL TEST RESULTS and RATINGS*

Sample ID D6 **(Pounds Per Acre)**

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	Nitrates (ppm)
5.9	7.4	48	*H*	364	*V*	1216	*S*	298	*S*							

Organic Matter % | Soluble Salts PPM**

RECOMMENDATIONS

D6 **Fertilizer/Lime Application Rate and Timing**

Grass-Clover Pasture b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 0-90 / 0 / 0 pounds per acre

Limestone: 2 tons per acre

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

County: Macon **Lab Number:** 361086

Mehlich 1 SOIL TEST RESULTS and RATINGS*

Sample ID D5 **(Pounds Per Acre)**

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	Nitrates (ppm)
5.5	7.4	22	*M*	170	*H*	904	*S*	162	*S*							

Organic Matter % | Soluble Salts PPM**

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RECOMMENDATIONS

D5 — **Fertilizer/Lime Application Rate and Timing**

Grass-Clover Pasture b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 0-90 / 30 / 0 pounds per acre

Limestone: 2.5 tons per acre

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

County: Macon — **Lab Number:** 361087

Mehlich 1 SOIL TEST RESULTS and RATINGS*

Sample ID D3 — **(Pounds Per Acre)**

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	Nitrates (ppm)
6.2		12	*L*	155	*M*	1553	*S*	266	*S*							

Organic Matter %	Soluble Salts PPM**

RECOMMENDATIONS

D3 — **Fertilizer/Lime Application Rate and Timing**

Grass-Clover Pasture b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 0-90 / 60 / 30 pounds per acre

Limestone: Lime is not recommended at this time

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

County: Macon — **Lab Number:** 361088

Mehlich 1 SOIL TEST RESULTS and RATINGS*

Sample ID J5 — **(Pounds Per Acre)**

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	Nitrates (ppm)
6.2		84	*H*	468	*V*	2218	*S*	398	*S*							

Organic Matter %	Soluble Salts PPM**

RECOMMENDATIONS

J5 — **Fertilizer/Lime Application Rate and Timing**

Grass-Clover Pasture b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 0-90 / 0 / 0 pounds per acre

***Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.)**

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Limestone: Lime is not recommended at this time

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

County: Macon **Lab Number:** 361089

Mehlich 1 SOIL TEST RESULTS and RATINGS*

Sample ID J10 **(Pounds Per Acre)**

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	Nitrates (ppm)
6.2		94	*H*	99	*M*	1852	*S*	326	*S*							

Organic Matter % | Soluble Salts PPM**

RECOMMENDATIONS

J10 **Fertilizer/Lime Application Rate and Timing**

Grass-Clover Pasture b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 0-90 / 0 / 30 pounds per acre

Limestone: Lime is not recommended at this time

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

County: Macon **Lab Number:** 361090

Mehlich 1 SOIL TEST RESULTS and RATINGS*

Sample ID J1 **(Pounds Per Acre)**

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	Nitrates (ppm)
6.0	7.4	35	*H*	102	*M*	1757	*S*	253	*S*							

Organic Matter % | Soluble Salts PPM**

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RECOMMENDATIONS

J1 **Fertilizer/Lime Application Rate and Timing**

Grass-Clover Pasture b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 0-90 / 0 / 30 pounds per acre

Limestone: 2 tons per acre

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

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Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

County: Macon **Lab Number:** 361091

Mehlich 1 SOIL TEST RESULTS and RATINGS*

Sample ID J9 **(Pounds Per Acre)**

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	Nitrates (ppm)
5.7	7.3	29	*M*	297	*H*	1545	*S*	196	*S*							

Organic Matter % | Soluble Salts PPM**

RECOMMENDATIONS

J9 **Fertilizer/Lime Application Rate and Timing**

Grass-Clover Pasture b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 0-90 / 30 / 0 pounds per acre

Limestone: 2.5 tons per acre

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

County: Macon **Lab Number:** 361092

Mehlich 1 SOIL TEST RESULTS and RATINGS*

Sample ID J3 **(Pounds Per Acre)**

Water pH	Buffer Value	P Phosphorus		K Potassium		Ca Calcium		Mg Magnesium		Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	Nitrates (ppm)
5.5	7.3	45	*H*	322	*V*	1226	*S*	232	*S*							

Organic Matter % | Soluble Salts PPM**

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RECOMMENDATIONS

J3 **Fertilizer/Lime Application Rate and Timing**

Grass-Clover Pasture b. Maintenance

$N / P_2O_5 / K_2O$

Nitrogen/Phosphate/Potash: 0-90 / 0 / 0 pounds per acre

Limestone: 2.5 tons per acre

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

County: Macon **Lab Number:** 361093

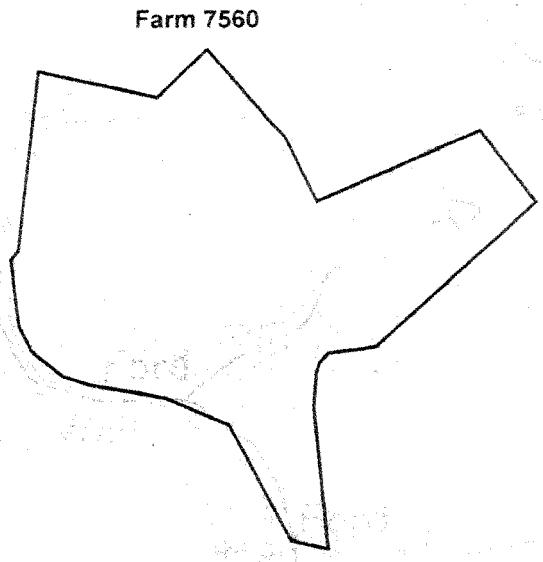
***Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.)**

****PPM = Parts per Million**

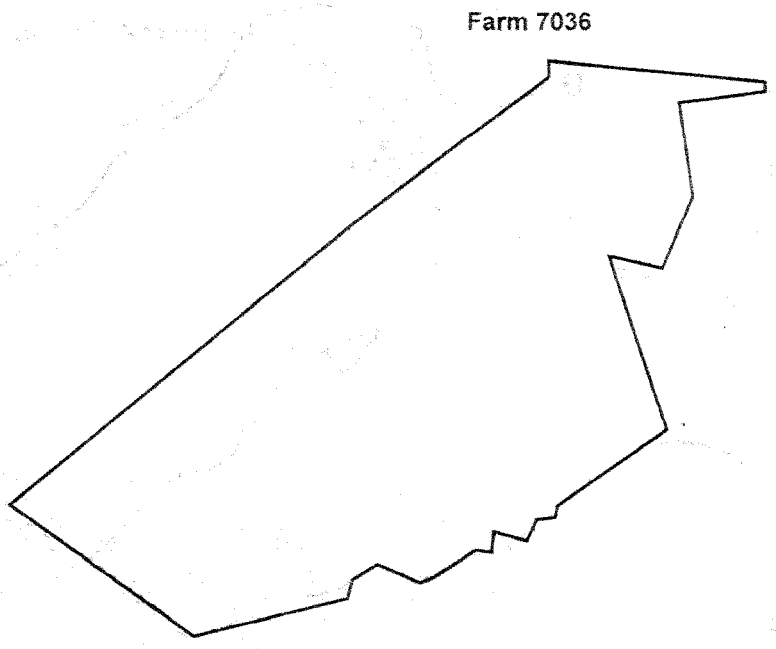
If you have questions about these recommendations, contact your County Extension office.

Visit our web site at http://soilplantandpest.utk.edu for additional information.

REJECTED



Dewey Swindle Poultry Operation



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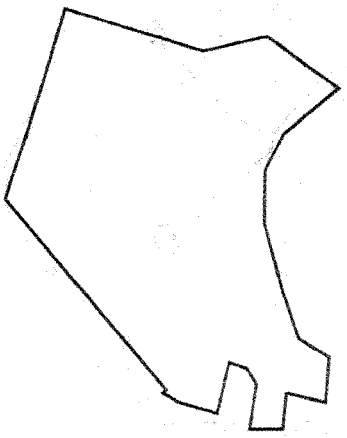
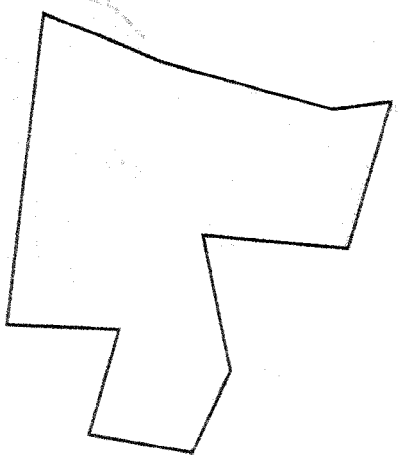


Farm 7091

Farm 7037



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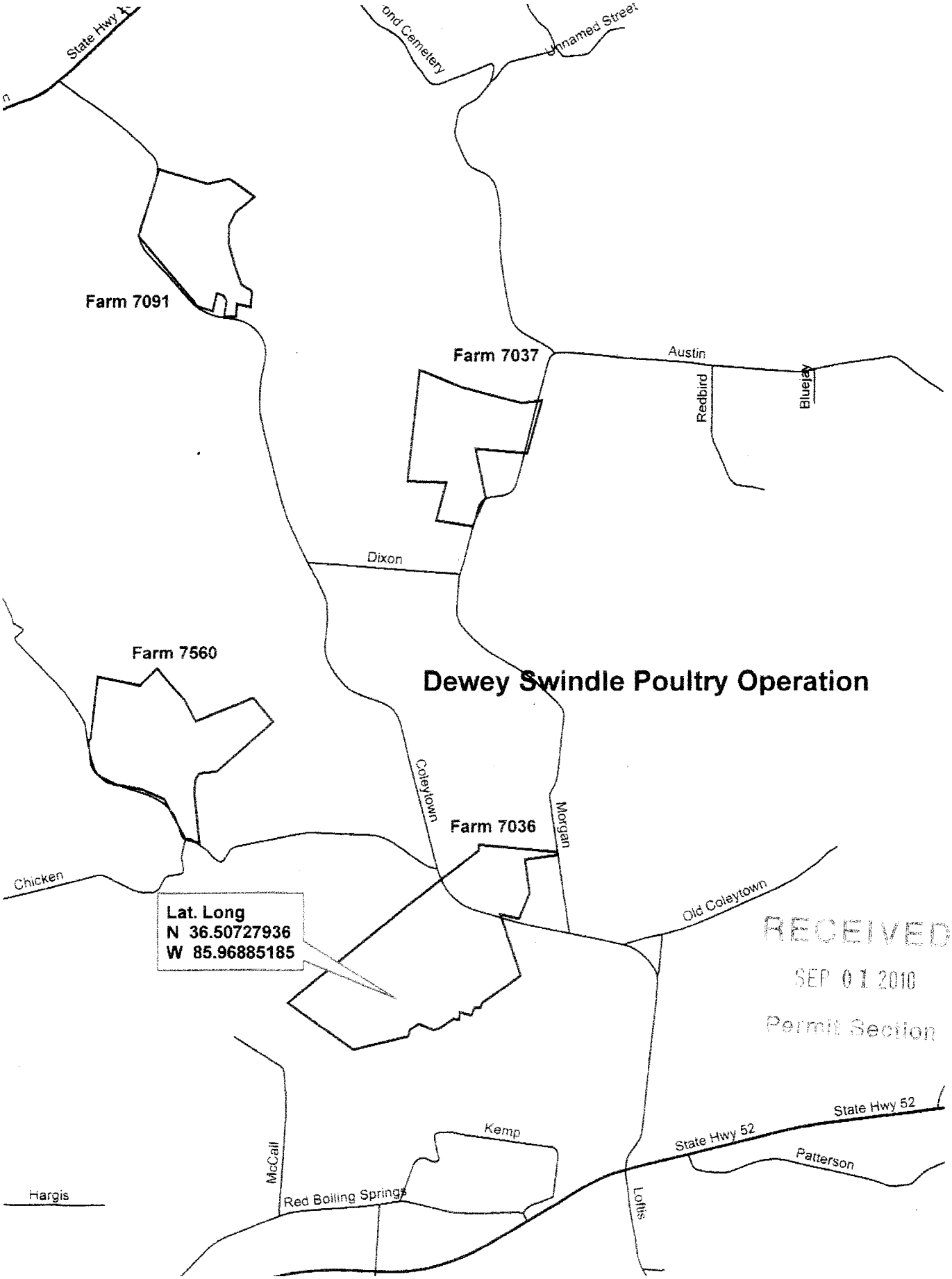
Permit Section

Farm 7560

RECEIVED

Dewey Swindle Poult



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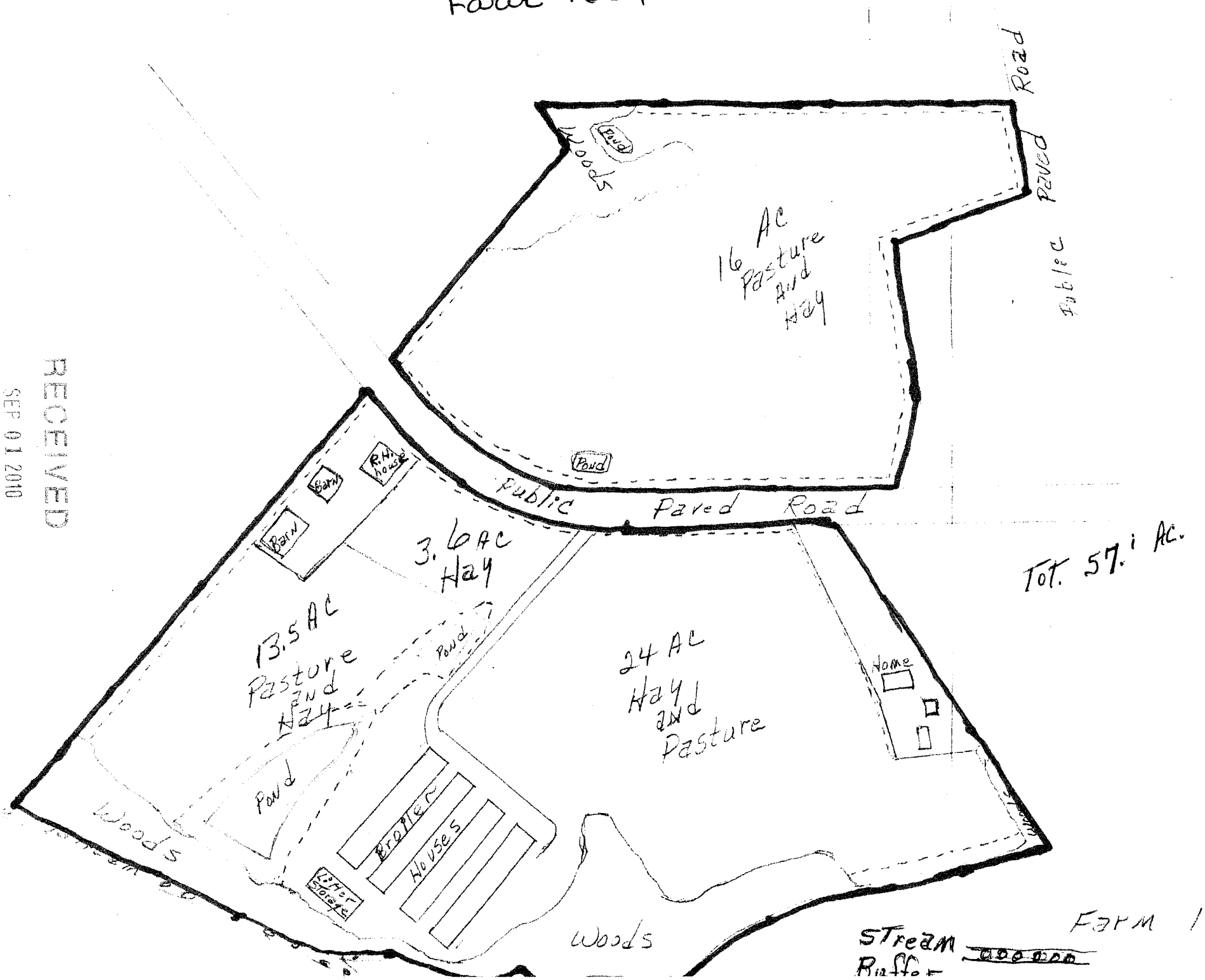
Permit Section

Farm 7036



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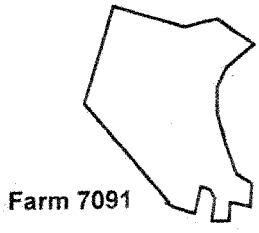
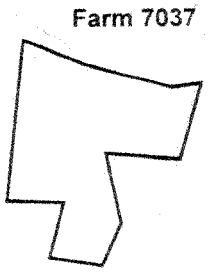
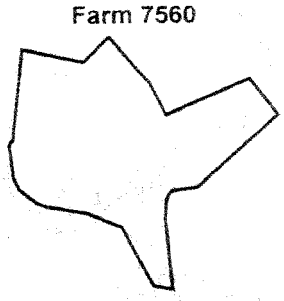
Permit Section



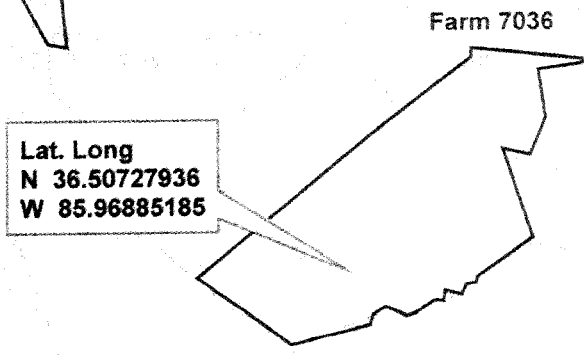


Topo Map Name

Galen



Dewey Swindle Poultry Operation



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Permit Section

Pleasant Shade

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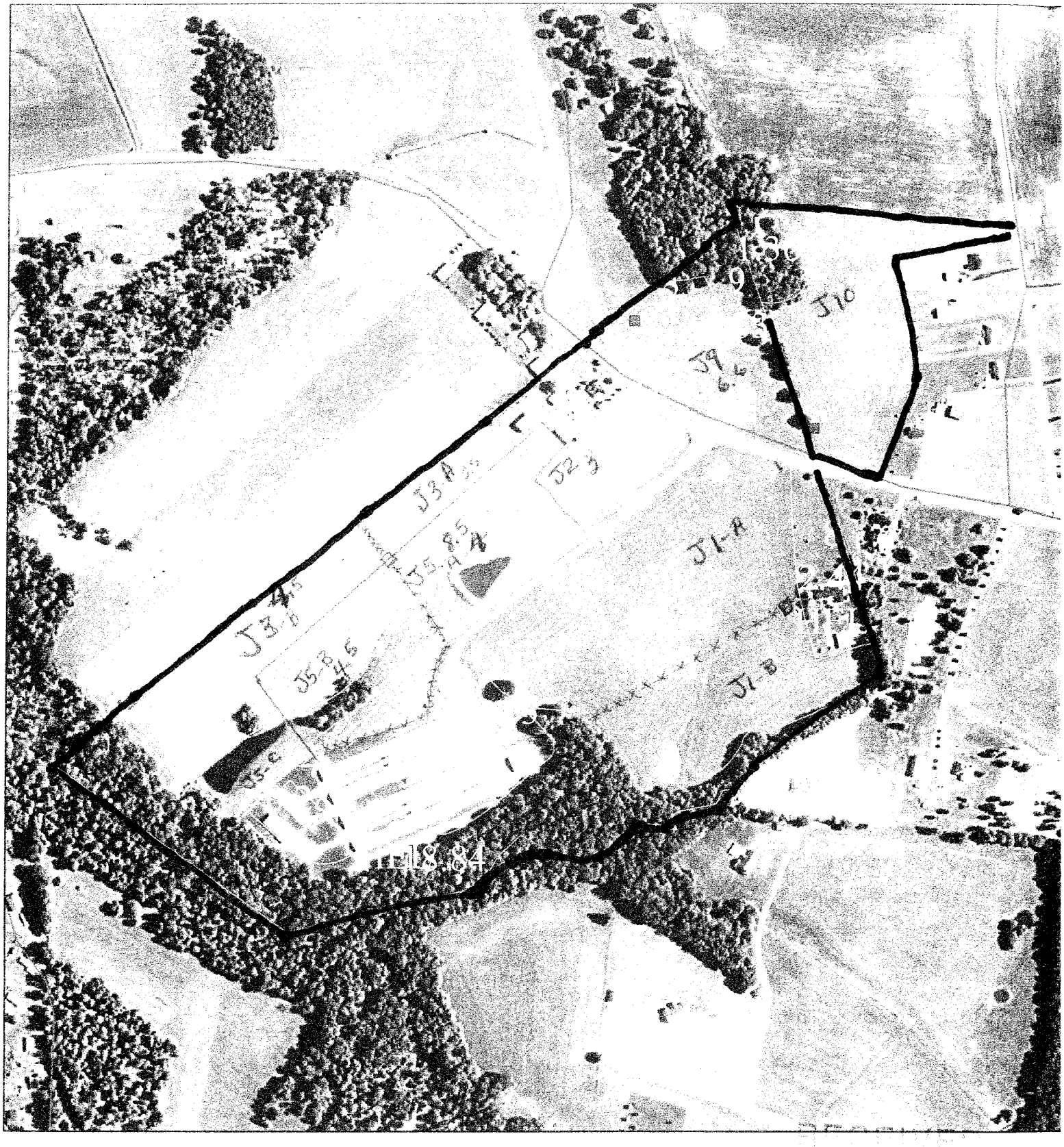


USDA United States Department of Agriculture
Farm Service Agency

2007 fsn 7036

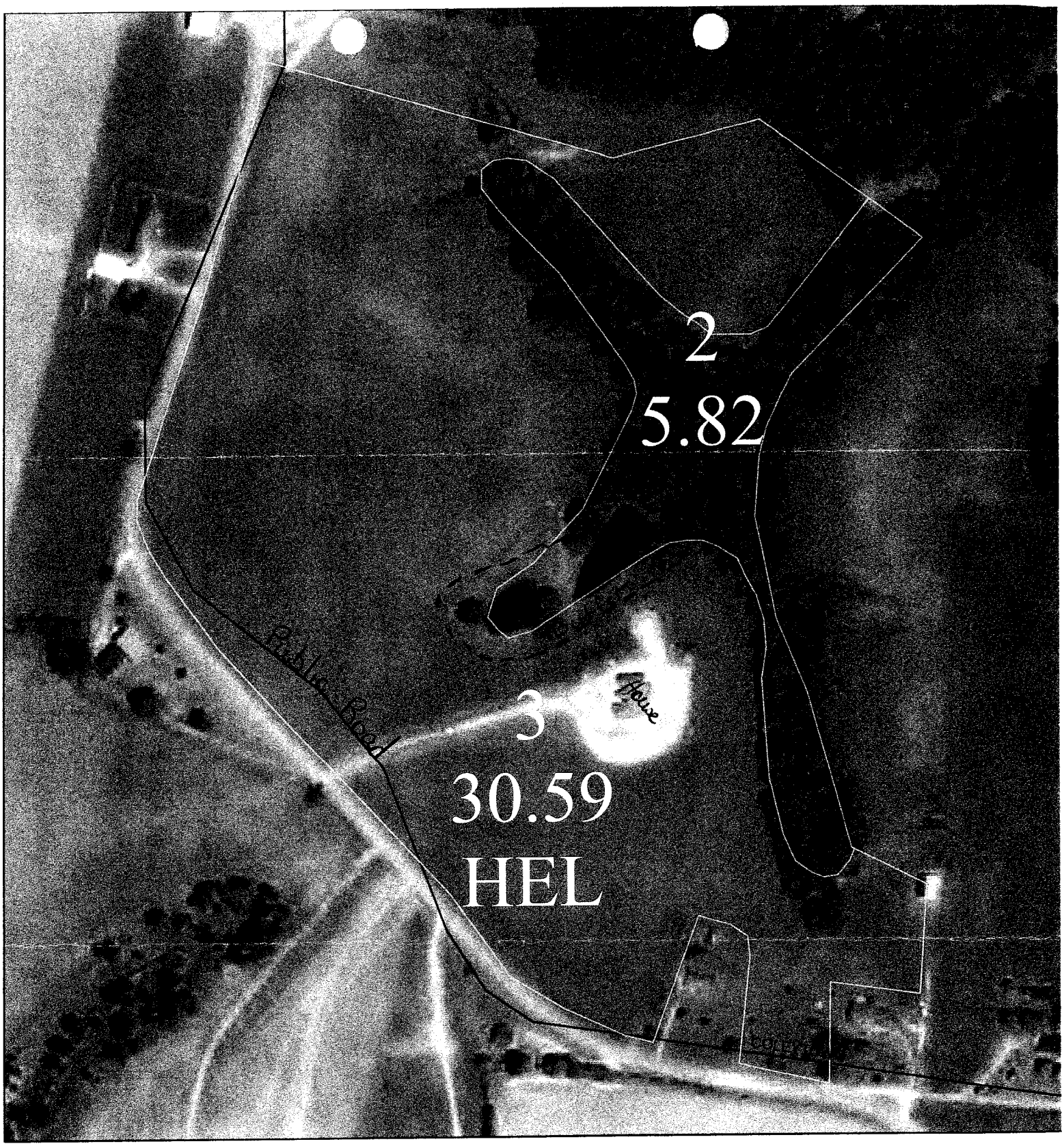
Title String **Macon County, TN**

1:5,426

N

not to scale

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.



USDA

United States Department of Agriculture
Farm Service Agency

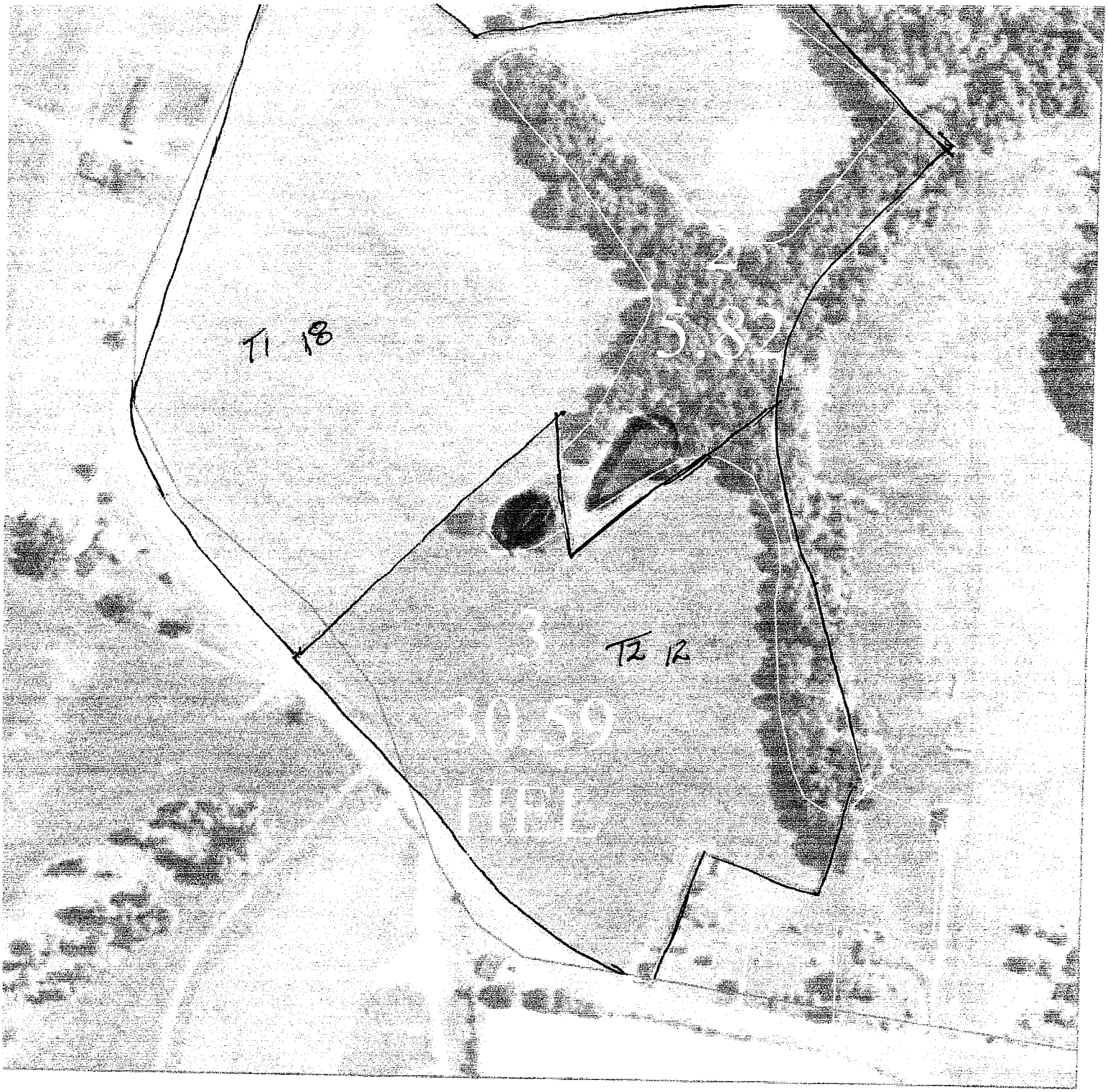
Grid:

Macon County

FSN 7091

N

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.



USDA United States Department of Agriculture
Farm Service Agency

2007-fsn 7081

Title String **Macon County, TN**

1:2,823

not to scale

= pond

T Samples

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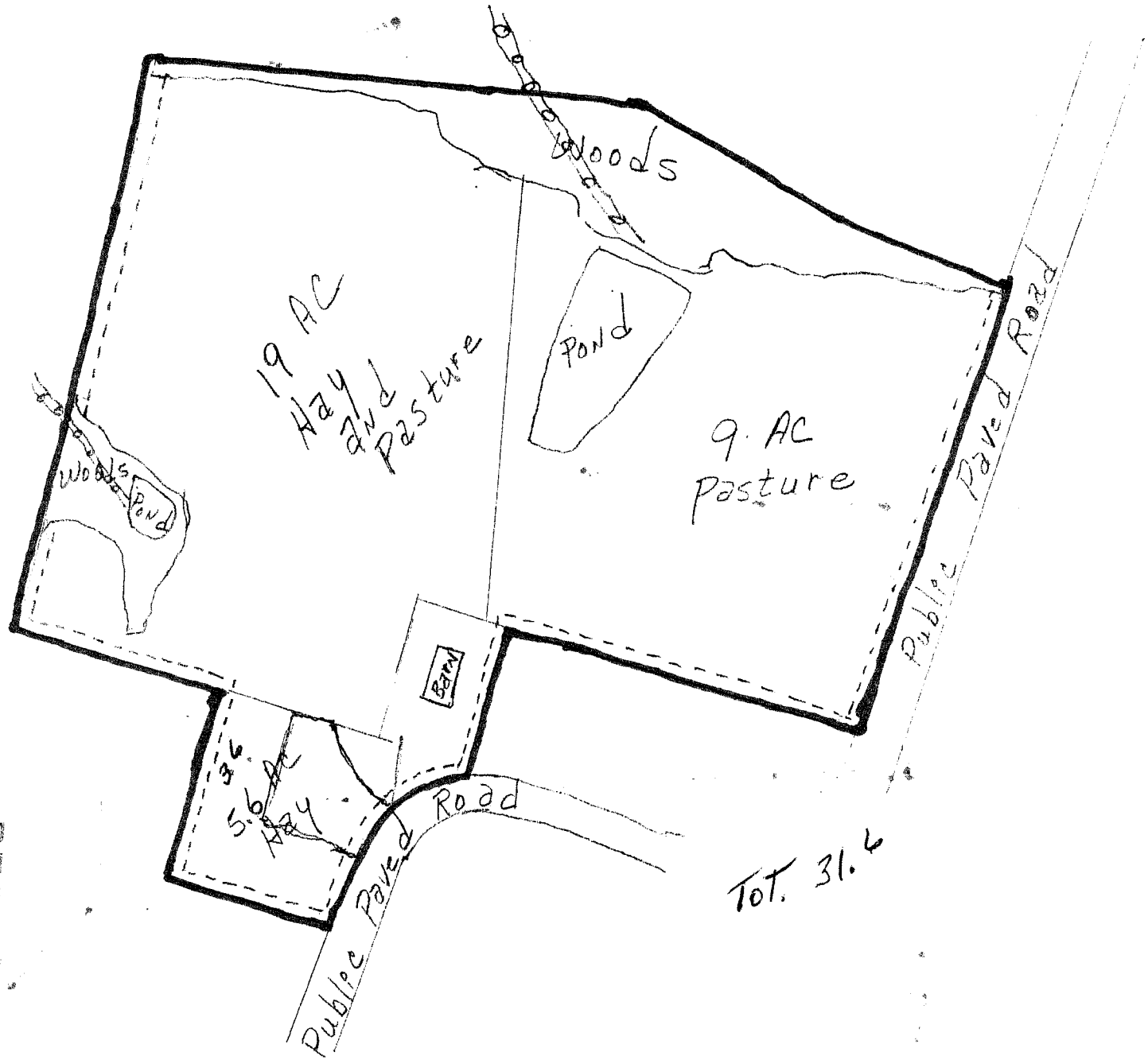
SEP 01 2016
Region

...ers: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination and maps for exact wetland boundaries and determinations, or contact NRCS.

Farm 7037



Stream
Buffer

Farm 3

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SEP 01 2010
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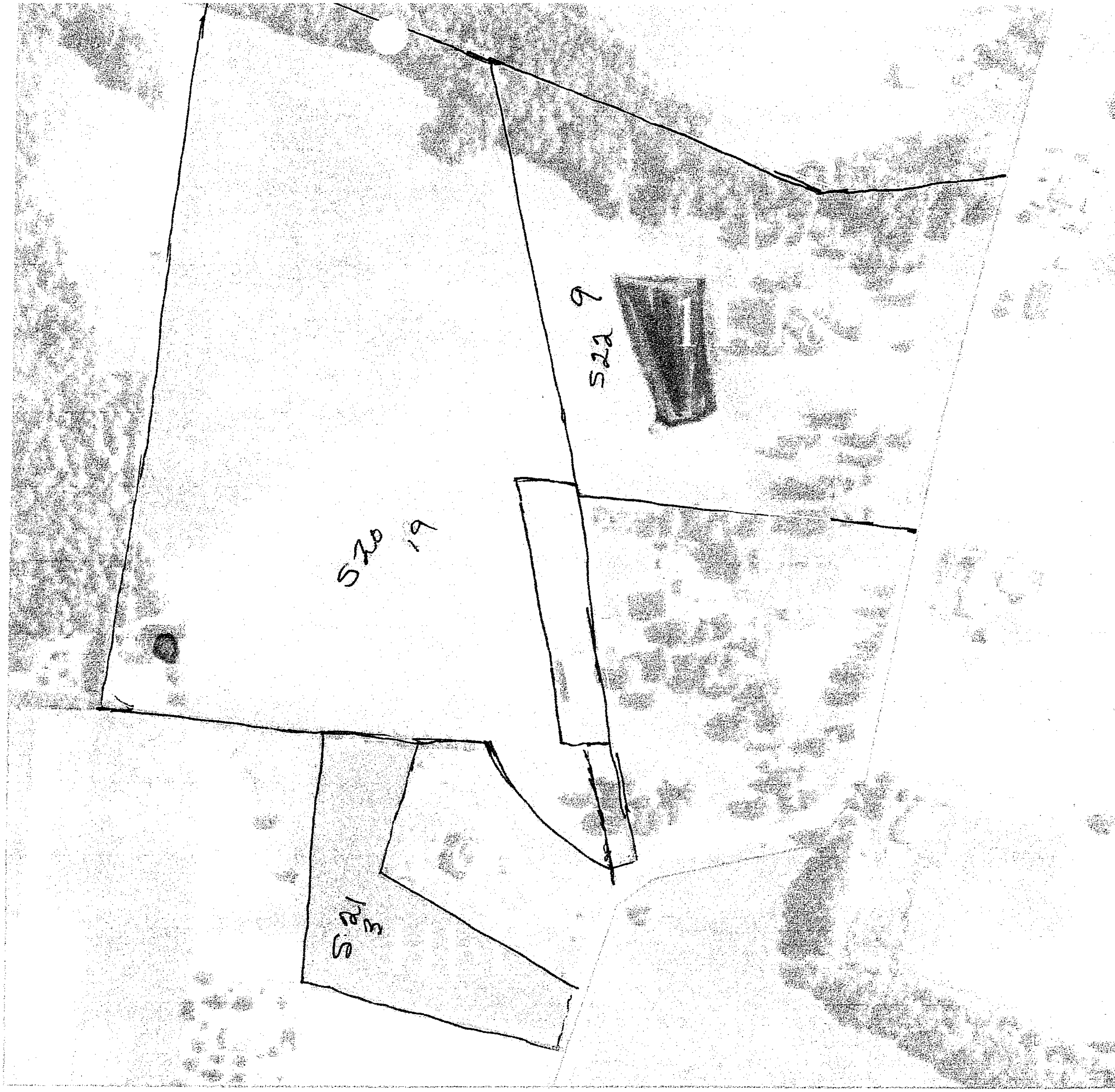


USDA United States Department of Agriculture
Farm Service Agency

2007 fsn 7037

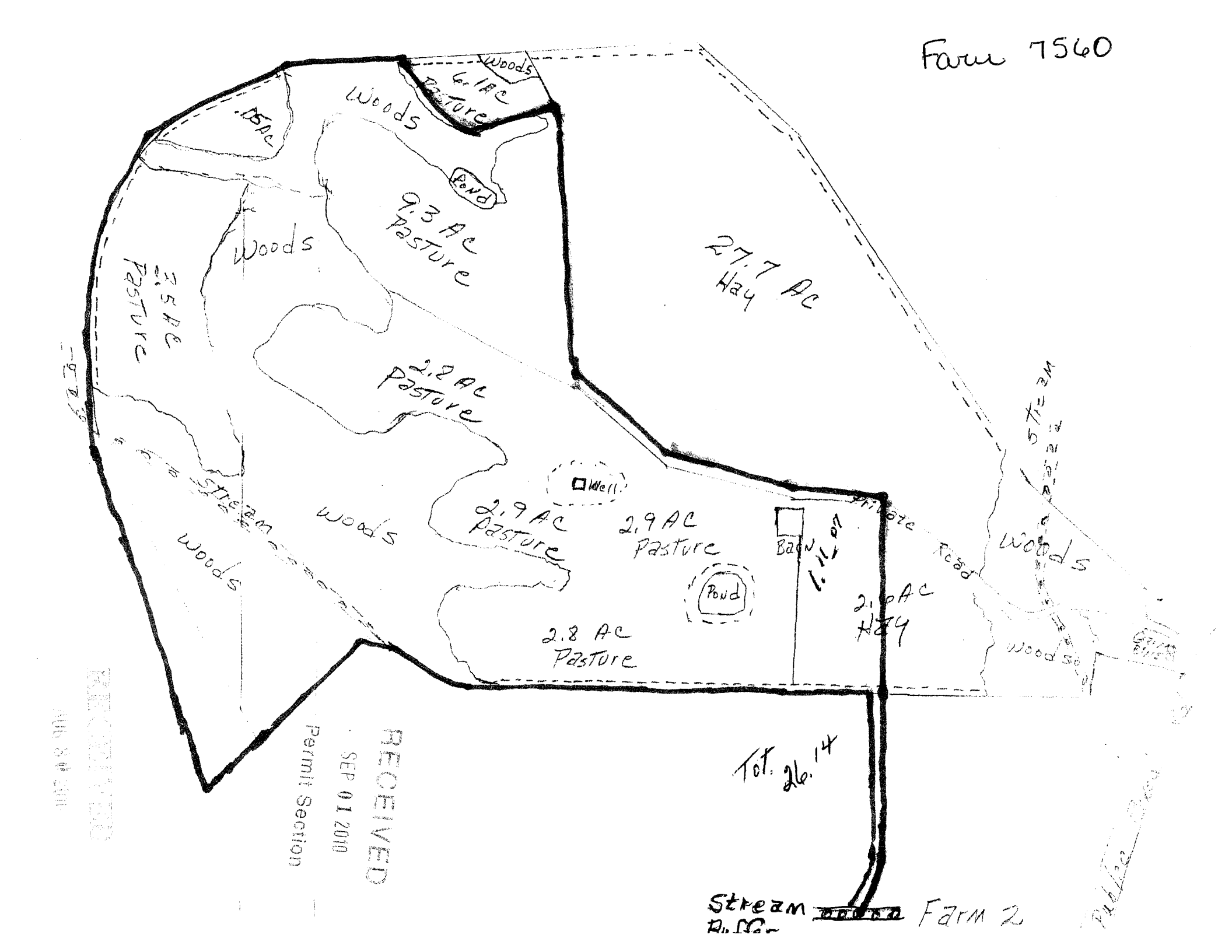
Title String **Macon County, TN**

.948

...t to Scale

= Pond

S- Samples


Farm 7560
Woods
6.1 Ac Pasture
Woods
.8 Ac
Pond
9.3 Ac Pasture
Woods
2.5 Ac Pasture
27.7 Ac Hay
2.2 Ac Pasture
Well
Stream
Woods
2.9 Ac Pasture
2.9 Ac Pasture
Barn
Private Road
Pond
2.8 Ac Pasture
2.6 Ac Hay
Woods
Tot. 26.14
Stream
Farm 2
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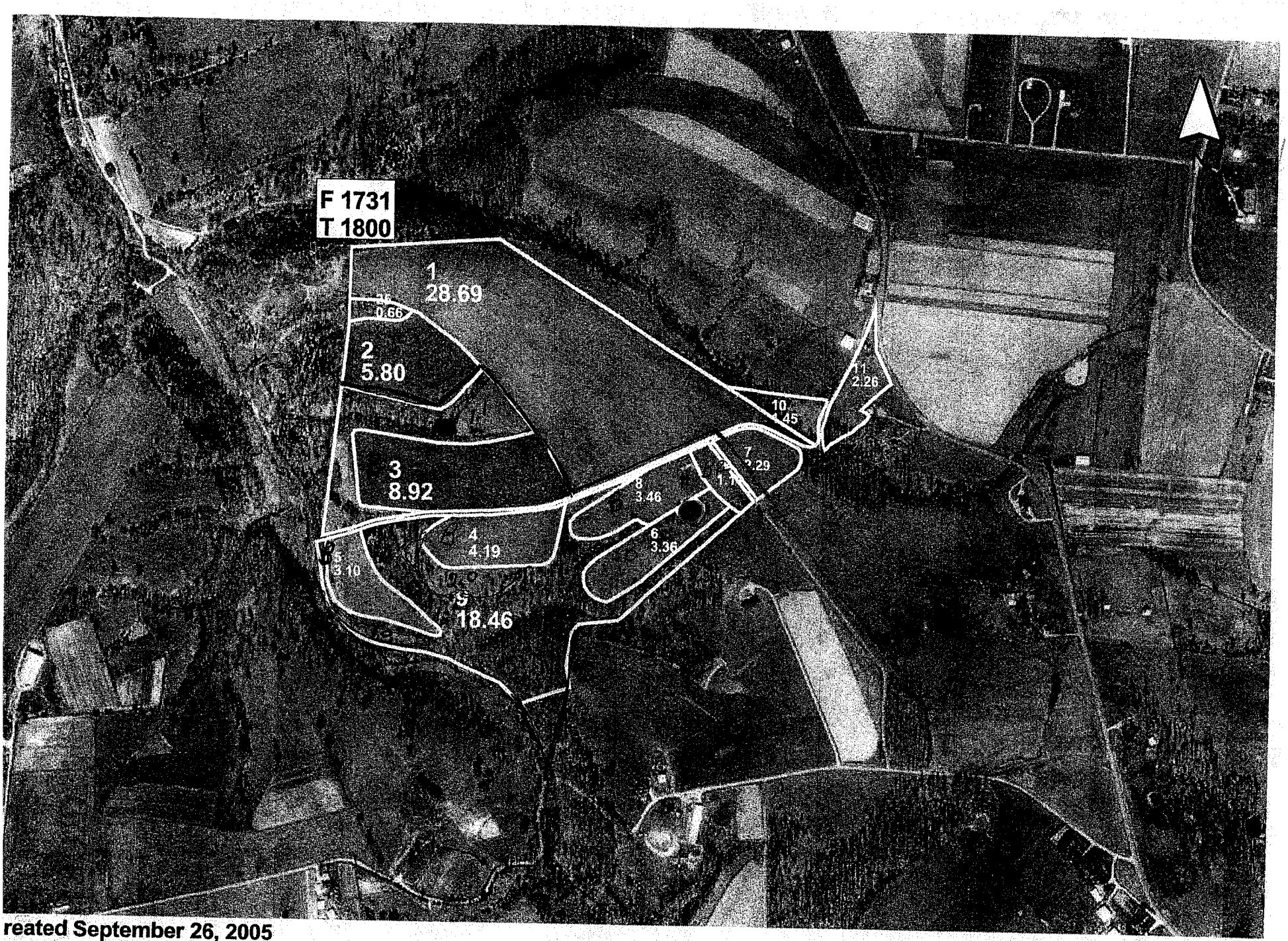

reated September 26, 2005

Farm 7560

660 0 660 1320 Feet

1800

Cropland = 61.6 acres

Farmland = 91.1 acres

= Pond

B. Samples